Chapter 10 Drainage Sheets

DRAINAGE SHEET DEVELOPMENT

Quick Punch List

Copy Drainage Spreadsheet into PIN directory

Enter drainage data into **drainage.xls**.

Save **drainage.xls** as a *tab-delimited text file*.

Create a Drainage Sheet using Make Sheetz

Run the Drainage Macro

USING THE DRAINAGE SPREADSHEET

Introduction

This macro merges data from an excel spreadsheet into MicroStation. There are a couple of steps involved. Follow them exactly.

ⓘ *Do not attempt to be creative in the naming of your file or create multiple files to somehow trick the program. It won't work.*

Step One: Copy the Spreadsheet

The **drainage.xls** spreadsheet is a standard form. The **drainage.xls** template is located in the **Y:\msworksp\MDOT MicroStation Utilities\Spreadsheets & Notes** folder. Make a copy of this file and place it in your workgroup's **MSTA** folder before entering your project data.

ⓘ *Do not edit the spreadsheet on the Y: drive!*

Step Two: Enter Drainage Data

Enter your drainage data into the spreadsheet. Do not attempt to reformat the spreadsheet in any way. Add all the information to this one spreadsheet even if there isn't any grid lines present in the rows or columns. Save your file.

♫ Make sure you save your changes by choosing **File > Save**.

Step Three: Save as TXT file

Our macro cannot access excel data when it is saved in workbook (xls) format. From **Excel**, choose **File > Save As…** This will open the **Save As** dialog (Figure 10-1).
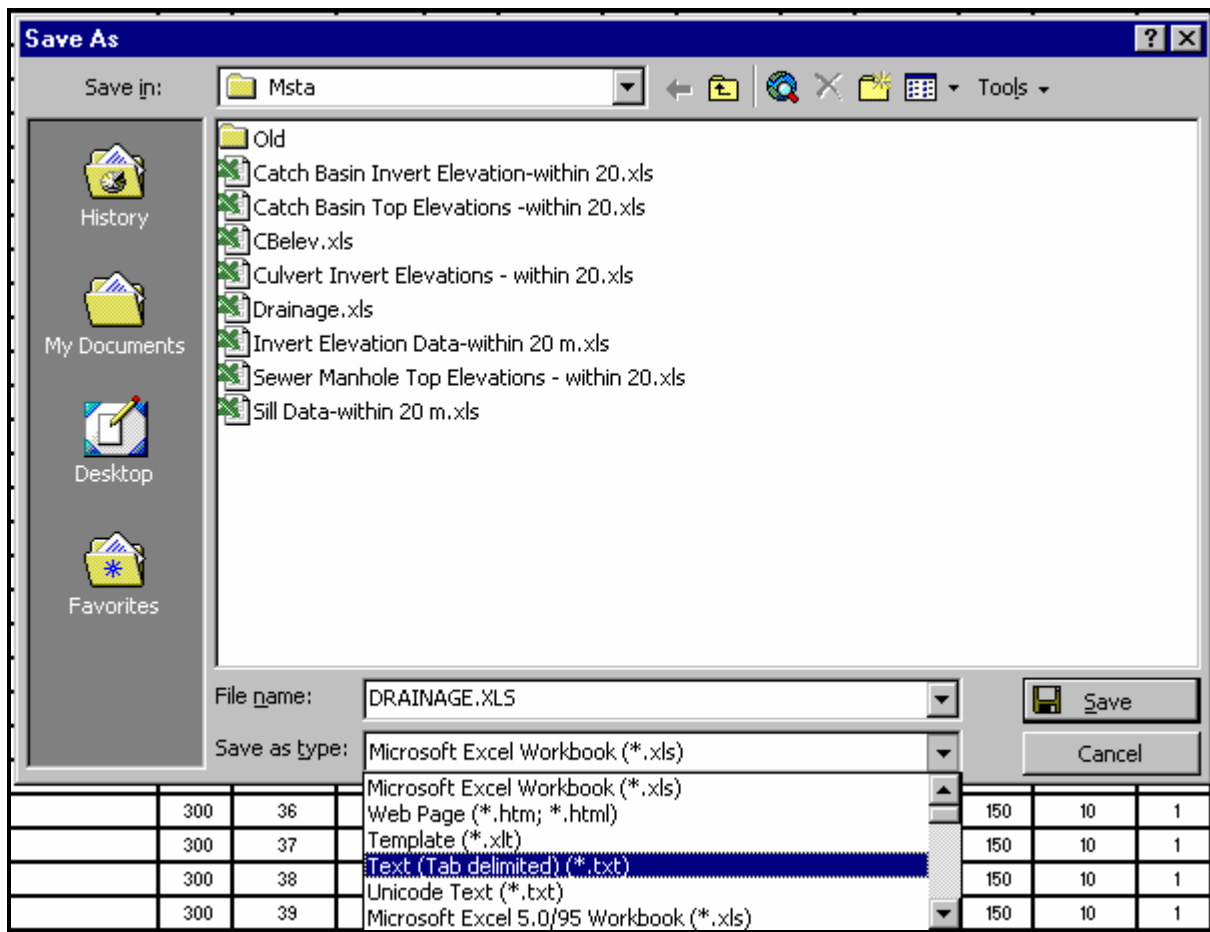
Figure 10-1: Save As Txt

From the bottom of this dialog, choose **Text (Tab delimited) (*.txt)** in the **Save as type** field.

Check that the file name is **DRAINAGE.TXT** and select **Save** button. This will bring up a **Microsoft Excel** dialog warning you about the limitations of tab delimited text (Figure 10-2).
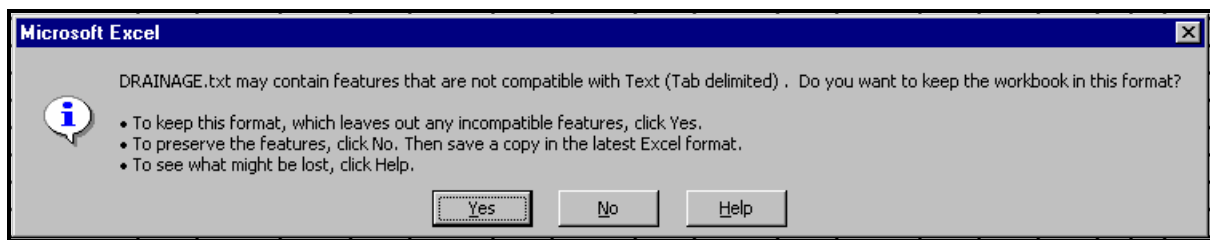

Figure 10-2: Save As Warning

Tab delimited text files aren't capable of handling all the formatting options of Microsoft Excel. This is not going to be a problem for us.

Dismiss this dialog by pushing the **Yes** button.

♪ Notice that you are now editing a file called "Drainage.txt". This filename is a must for the macro to work (Figure 10-3).
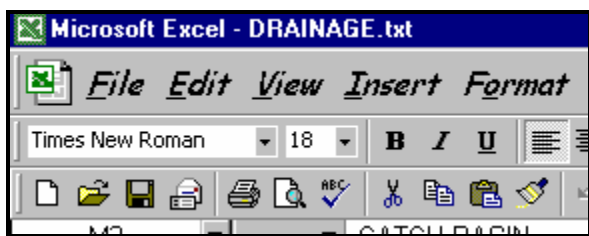

Figure 10-3: New File Name

You are now finished with **Excel**. Choose **File > Exit**. You will get a warning dialog like Figure 10-4.
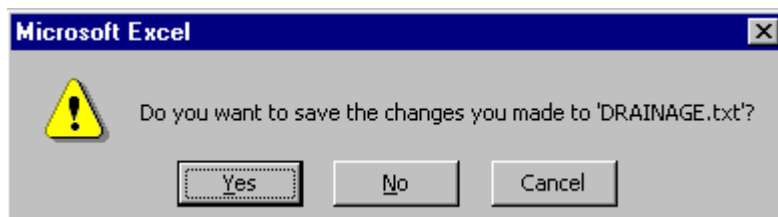

Figure 10-4: Save Changes?

You do **not** need to save this file again. Dismiss this dialog by pressing the **No** button.

IMPORTING DRAINAGE INFORMATION

Step One: Open MicroStation

To begin, double click on your "MicroStation new InRoads config" icon and select your project from the project pull down. Open any file.

Step Two: Make an Drainage Sheet

, go to **File > Make Sheetz** and create a *numbered* sheet with *Drainage* as the file type (i.e. 004_Drainage.dgn).

> ✓ *Check out page 1-18 for more information about making sheets.*

Step Three: Run the Macro

From the *Main Menu* select **Macros>Drainage**.

MicroStation will prompt you "Drainage > Snap to upper left corner of first table" *Snap* to the point marked with an "X" in Figure 10-5, and *Accept*.
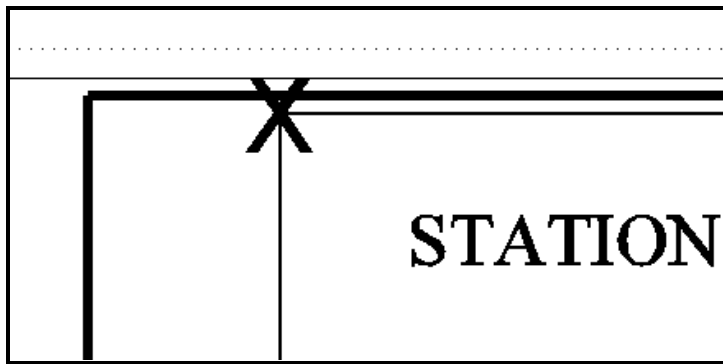

Figure 10-5: Upper Left Corner

MicroStation will place a column of text in every column of the table has information.

ⓘ *If you would rather used a different justification on certain text, use Text>Rejustify (Macro) and select the text you want to change. When the dialog comes up, pick the new justification.*

Multiple Drainage Sheets

If you have more than 78 lines of drainage information, the macro will start placing another column of text to the right of the first table and place an additional border.

- Place a fence around the new border and select **Utilities>Development Tools>Fence File** from the *Main Menu*. When the new dialog appears, supply the name of an additional Drainage Sheet (i.e. 005_Drainage2.dgn) being sure to increment the prefix and suffix. Click OK. Click on the screen to *Accept* the command. Open the new sheet. If all looks good, delete the extra border and contents from the original file. Contact CADD Support for assistance.